

Technical Data Sheet



ROX Reference Dye

High ROX (ROX-M-H40)

Low ROX (ROX-M-L50)

Background

6-carboxyl-X-Rhodamine commonly known as ROX dye is a passive reference dye for qPCR applications. It is an inert fluorescent dye that can be added as one of the components in a qPCR master mix. High ROX is usually 500nM and Low ROX is 50nM. The ROX concentration depends on the qPCR instrument or, more precisely, on the filter available. ROX compensate for well to well variations in qPCR reaction. Variations can occur due variation in light intensity, which depends on the optical construction of the PCR machine or due to pipetting error. The ROX fluorescence does not change during the PCR reaction but provide a stable baseline to which samples are normalized. The excitation and emission of the reference dye are 584 nm and 612nm, respectively.

Storage: Store at 20°C

